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| L5 and @pd > 20040530 | 49 |

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 Derwent World Patents Index
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| <u>L6</u> L5 and @pd > 20040530 | 49 | <u>L6</u> |
| <u>L5</u> L4 AND (update or install or configure) | 219 | <u>L5</u> |
| <u>L4</u> L3 AND (configuration ADJ management) | 254 | <u>L4</u> |
| <u>L3</u> wireless AND LAN and configuration and management (6094531 6009479 5764593 4922450 5915124 6158020 5204956 5367686 5655148 5787246 6003097 6016400 6336152 4878196 6038586 5721951 6085333 6591376 5564054 4891785 5668992 5758182 5768542 5881252 | 3214 | <u>L3</u> |
| <u>L2</u> 5303166 4901223 5598576 5797029 6105142 6175880 6385645 5471609 5758165 5794052 5842024 5974258 5233611 5555401 5611044 5978912 6167538 6324644 5363446 5421009 5742829 5794032 5867730 5903753 6282712 5410681).pn. | 50 | <u>L2</u> |
| <u>L1</u> hardware ADJ (update OR upgrade or replacement) AND (software ADJ update) | 6 | <u>L1</u> |

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☐ 1. Document ID: US 6826123 B1

L1: Entry 1 of 6

File: USPT

Nov 30, 2004

US-PAT-NO: 6826123

DOCUMENT-IDENTIFIER: US 6826123 B1

TITLE: Global recovery for time of day synchronization

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|--------------|-------|----------|---------|
| Herring; Jay R. | Poughkeepsie | NY | | |

US-CL-CURRENT: 368/46; 368/47, 375/356, 709/248, 713/375, 713/400

ABSTRACT:

A system and method is provided for synchronizing time of day information between and among communication adapters. Time of day information, which is desired for proper message packet ordering and delivery, is recovered in a process in which a master adapter, connected to a master node, periodically broadcasts current time of day information to slave adapters which operate to determine whether or not drift correction is to be applied.

1 Claims, 50 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 43

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWOC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
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☐ 2. Document ID: US 6636074 B2

L1: Entry 2 of 6

File: USPT

Oct 21, 2003

US-PAT-NO: 6636074

DOCUMENT-IDENTIFIER: US 6636074 B2

**** See image for Certificate of Correction ****

TITLE: Clock gating to reduce power consumption of control and status registers

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|------------|-------|----------|---------|
| Schulz; Jurgen M. | Pleasanton | CA | | |

US-CL-CURRENT: 326/93; 326/136, 327/141

ABSTRACT:

Various systems and methods for reducing the power consumption of CSRs (Control and Status Registers) within an integrated circuit (IC) are disclosed. In one embodiment, an IC includes a plurality of CSRs. Each CSR includes one or more flip-flops that are used to store one or more bits of control and/or status information for an associated device on the IC. The IC also includes one or more clock gates. Each clock gate is coupled to provide a gated clock signal to one or more of the flip-flops in a respective one of the CSRs. Each clock gate is configured to output a clock signal as the gated clock signal if a clock enable signal that corresponds to the respective CSR is asserted. The IC also includes one or more clock gating units that are each configured to generate the clock enable signal for a respective one of the CSRs.

9 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D. |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 3. Document ID: US 6463584 B1

L1: Entry 3 of 6

File: USPT

Oct 8, 2002

US-PAT-NO: 6463584

DOCUMENT-IDENTIFIER: US 6463584 B1

TITLE: State copying method for software update

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------|-----------|-------|----------|---------|
| Gard; Bengt Erik Ingemar | Tullinge | | | SE |
| Kling; Lars-Orjan | Sodertaje | | | SE |
| Johnsson; Sten Edvard | Farsta | | | SE |

US-CL-CURRENT: 717/171; 370/396, 709/215

ABSTRACT:

To provide an approach to software update with scaleable disturbance there is proposed a state copying method for a computation system with at least two logic partitions wherein a state of new software in a standby partition is updated to the state of old software in an executing partition while continuing execution of the old software. Data is transferred from the executing partition to the standby partition in a scaleable way and as soon as the same state is achieved for the

standby partition and the executing partition the execution is switched to the new, software. This provides a scaleable degree of disturbance due to the software update.

29 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWAC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|------|--------|

☐ 4. Document ID: US 6347396 B1

L1: Entry 4 of 6

File: USPT

Feb 12, 2002

US-PAT-NO: 6347396
DOCUMENT-IDENTIFIER: US 6347396 B1

TITLE: Disturbance free update of data

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------|------------|-------|----------|---------|
| Gard; Bengt Erik Ingemar | Tullinge | | | SE |
| Kling; Lars-Orjan | Sodertalje | | | SE |
| Johnsson; Sten Edvard | Farsta | | | SE |

US-CL-CURRENT: 717/168; 707/10, 707/104.1

ABSTRACT:

To improve the efficiency for an update process in a software processing device with a plurality of memory partitions (4,14) it is proposed to continue the execution of old software on original data stored in a first memory partition (4). In case the same state for data of old and new software is achieved (S4) an instant switch of services to the new software as far as the same state is achieved (S5) takes place. This processing is repeated (S6) until no data to be transferred remains (S6) in the first memory partition. Thus, the present invention allows for a considerable improvement of the update efficiency with reduced disturbances during data transfer.

34 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWAC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|------|--------|
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☐ 5. Document ID: US 6021505 A

L1: Entry 5 of 6

File: USPT

Feb 1, 2000

US-PAT-NO: 6021505
DOCUMENT-IDENTIFIER: US 6021505 A

TITLE: Method and apparatus for updating a timer from multiple timing domains

DATE-ISSUED: February 1, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|-----------|-------|----------|---------|
| Ayyagari; Bhuvaneshwari | San Jose | CA | | |
| Raman; Rajesh | Fair Oaks | CA | | |

US-CL-CURRENT: 713/502

ABSTRACT:

The present invention is a method and apparatus for updating a timer from a plurality of timing domains. An arbitration circuit arbitrates the update requests from the plurality of timing domains. The plurality of timing domains include at least a counter. The update requests provide the update values. A multiplexer, which is coupled to receive the update values, selects a timer value from the update values. A timer register which is coupled to the multiplexer stores the timer value synchronously with a local clock signal.

29 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
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☐ 6. Document ID: US 5901320 A

L1: Entry 6 of 6

File: USPT

May 4, 1999

US-PAT-NO: 5901320
DOCUMENT-IDENTIFIER: US 5901320 A

TITLE: Communication system configured to enhance system reliability using special program version management

DATE-ISSUED: May 4, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Takahashi; Souichi | Kanazawa | | | JP |
| Kobayashi; Seiichi | Kawasaki | | | JP |

US-CL-CURRENT: 717/170; 709/223, 717/171, 717/173

ABSTRACT:

A communication system comprising a plurality of network elements and a monitoring

apparatus for centrally monitoring and controlling these network elements. Each of the network elements has a plurality of CPU's and a flash memory for accommodating programs to be performed by the CPU's. The monitoring apparatus includes a database, a management unit and a transfer unit. The database retains a plurality of programs for each of the CPU's in each network element, and generic issues defined uniquely corresponding to combinations of versions of programs to be executed by each CPU. When the version of any program is changed, the management unit selects the program to be transferred in accordance with the applicable generic issue. The transfer unit transfers the program thus selected to the monitoring apparatus.

20 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
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| Terms | Documents |
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| hardware ADJ (update OR upgrade or replacement) AND (software ADJ update) | 6 |

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☐ 1. Document ID: US 6892233 B1

L6: Entry 1 of 49

File: USPT

May 10, 2005

US-PAT-NO: 6892233

DOCUMENT-IDENTIFIER: US 6892233 B1

TITLE: Optical communication network and method of remotely managing multiplexers

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|--------------------|-------|----------|---------|
| Christian; Philip J. | Bishop's Stortford | | | GB |
| Ramsden; Chris | Hertford | | | GB |

US-CL-CURRENT: [709/223](#), [709/221](#), [709/227](#), [709/228](#), [709/229](#), [709/230](#)

ABSTRACT:

To provide a graphic user interface, supported by HTML or Java script, to a personal computer (102) for the control of SONET/SDH network elements (106), an RS-232 port of a PC is used to establish a PPP session to a remote access server, RAS (122). The network element (106) is therefore configured to imitate a modem, and to route PPP packets into its related management system across an optical ring (12). The management system may include an intermediate network manager (120) and a DHCP server (124). Once legitimacy of the PC is established through the IP session, the PC is provided with an IP address to invoke the PC's IP stack. Subsequently, IP is communicated across the PPP session, with the RAS (120) configured to terminate the PPP session and forward IP packets into an IP network (128). IP packets (131), received at a web server (140), are converted into command line interface (CLI) messages 135 and are sent directly to the network manager (120) within an IP packet. The network manager (120) terminated the IP packet and re-packages the CLI messages into an optical carrier format (140) for relay to an addressed network element (106). The addressed network element (106), which is responsive to the CLI messages from a management perspective, then alters its set-up or functionality accordingly. Complex text-based CLI instructions are thus avoided by a field-based engineer through the use of a GUI supported by a PC having web-browser capabilities, with an typical architecture shown in FIG. 2.

30 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|----------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Footnote | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|----------|----------|

☐ 2. Document ID: US 6892230 B1

L6: Entry 2 of 49

File: USPT

May 10, 2005

US-PAT-NO: 6892230

DOCUMENT-IDENTIFIER: US 6892230 B1

TITLE: Dynamic self-configuration for ad hoc peer networking using mark-up language formatted description messages

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|-------------|-------|----------|---------|
| Gu; Ye | Seattle | WA | | |
| Ford; Peter S. | Carnation | WA | | |
| Knight; Holly | Woodinville | WA | | |
| Goland; Yaron Y. | Redmond | WA | | |
| Leach; Paul J. | Seattle | WA | | |

US-CL-CURRENT: 709/220; 370/254, 713/1

ABSTRACT:

A device control model provides an integrated set of addressing, naming, discovery and description processes that enables automatic, dynamic and ad-hoc self-setup by devices to interoperate with other devices on a network. This permits a computing device when introduced into a network to automatically configure so as to connect and interact with other computing devices available on the network, without a user installation experience and without downloading driver software or persisting a configuration setup for connecting and interacting with such other computing devices. Upon completing interaction with such other devices, the computing device automatically releases the setup for such other devices so as to avoid persistent device configurations that might create a configuration maintenance and management burden.

18 Claims, 51 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 48

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|-------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | 13000 | Origin |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|-------|--------|

☐ 3. Document ID: US 6889321 B1

L6: Entry 3 of 49

File: USPT

May 3, 2005

US-PAT-NO: 6889321

DOCUMENT-IDENTIFIER: US 6889321 B1

TITLE: Protected IP telephony calls using encryption

DATE-ISSUED: May 3, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-------------|-------|----------|---------|
| Kung; Fen-Chung | Bridgewater | NJ | | |
| Russell; Jesse Eugene | Piscataway | NJ | | |
| Walker; Hopeton | Haledon | NJ | | |
| Wang; Spencer | Parsippany | NJ | | |

US-CL-CURRENT: 713/153; 380/201, 380/202, 713/171

ABSTRACT:

Communication information transmitted in the broadband communication system may be in a packet format and secured using encryption techniques, for example encryption software, including a means for providing an initial security key and updated security keys to the various pieces of communication equipment located throughout the broadband communication system. When communication equipment, for example a gateway, is first registered with, for example, an IP central station, the IP central station assigns an initial encryption key to the gateway that is assigned and retained by a server, for example a call manager server, and the gateway (e.g., broadband residential gateway. This initial encryption key may be used to establish a secure two way communication between two pieces of communication equipment as an originating point communication equipment and a terminating point communication equipment.

14 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

| | | | | | | | | | | | | |
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Index | Drawings |
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☐ 4. Document ID: US 6883034 B1

L6: Entry 4 of 49

File: USPT

Apr 19, 2005

US-PAT-NO: 6883034

DOCUMENT-IDENTIFIER: US 6883034 B1

TITLE: Method of resolving conflicts in access control lists in router by comparing elements in the lists based on subsumption relations

DATE-ISSUED: April 19, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|---------------|-------|----------|---------|
| Pelavin; Richard N. | San Francisco | CA | | |
| McGuire; James G. | Daly City | CA | | |
| Madan; Herbert S. | Sausalito | CA | | |

US-CL-CURRENT: 709/242; 370/351, 709/238

ABSTRACT:

Methods are described for analyzing access list subsumption in routing devices of a computer network and for identifying computer network integrity violations, by producing structured data that includes stored router names and access lists that include elements with address/mask pairs, or patterns used to filter data into and out of a routing device, respectively; determining whether access lists in the structured data include elements in which a first element in the access list has a more general or equal address/mask pair, or pattern, respectively, than a second or subsequent element, or pattern; and storing in electronic memory a report of elements or a list of patterns, respectively, in which a first element or pattern is more general than or equal to a second or subsequent element or pattern.

20 Claims, 132 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 104

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Figures | Claims | Page | Draw. Sheets |
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☐ 5. Document ID: US 6880086 B2

L6: Entry 5 of 49

File: USPT

Apr 12, 2005

US-PAT-NO: 6880086

DOCUMENT-IDENTIFIER: US 6880086 B2

TITLE: Signatures for facilitating hot upgrades of modular software components

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|-----------|-------|----------|---------|
| Kidder; Joseph D. | Arlington | MA | | |
| Mahler; Michael B. | Boylston | MA | | |
| Perreault; Edward L. | Dunstable | MA | | |
| Stearns; Margaret | Hollis | NH | | |
| Hurley; Jim | Acton | MA | | |

US-CL-CURRENT: 713/191; 713/177, 713/200

ABSTRACT:

The present invention provides a method and apparatus for facilitating hot upgrades of software components within a telecommunications network device through the use of "signatures" generated by a signature generating program. After installation of a new software release within the network device, only those software components whose signatures do not match the signatures of corresponding and currently executing software components are upgraded. Signatures promote hot upgrades by identifying only those software components that need to be upgraded. Since signatures are automatically generated for each software component as part of putting together a new release a quick comparison of two signatures provides an accurate assurance that either the software component has changed or has not. Thus, signatures provide a quick, easy way to accurately determine the upgrade status of

each software component.

25 Claims, 277 Drawing figures...

Exemplary Claim Number: 1

Number of Drawing Sheets: 269

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Drawings |
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☐ 6. Document ID: US 6874017 B1

L6: Entry 6 of 49

File: USPT

Mar 29, 2005

US-PAT-NO: 6874017

DOCUMENT-IDENTIFIER: US 6874017 B1

TITLE: Scheme for information delivery to mobile computers using cache servers

DATE-ISSUED: March 29, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|----------|-------|----------|---------|
| Inoue; Atsushi | Kanagawa | | | JP |
| Kamagata; Eiji | Kanagawa | | | JP |
| Kato; Noriyasu | Kanagawa | | | JP |
| Shibuya; Naohisa | Saitama | | | JP |
| Kumaki; Yoshinari | Kanagawa | | | JP |
| Shobatake; Yasuro | Kanagawa | | | JP |

US-CL-CURRENT: 709/217; 709/218, 709/219

ABSTRACT:

In the disclosed information delivery scheme for delivering WWW information provided by information servers on the Internet to mobile computers connected to the Internet through a wireless network, a plurality of cache servers capable of caching WWW information provided by the information servers are provided in association with the wireless network. The cache servers can be managed by receiving a message indicating at least a connected location of a mobile computer in the wireless network from the mobile computer, selecting one or more cache servers located nearby the mobile computer according to the message, and controlling these one or more cache servers to cache selected WWW information selected for the mobile computer, so as to enable faster accesses to the selected WWW information by the mobile computer. Also, the cache servers can be managed by selecting one or more cache servers located within a geographic range defined for an information provider who provides WWW information from an information server, and controlling these one or more cache servers to cache selected WWW information selected for the information provider, so as to enable faster accesses to the selected WWW information by the mobile computer.

9 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Page | Page |
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☐ 7. Document ID: US 6868447 B1

L6: Entry 7 of 49

File: USPT

Mar 15, 2005

US-PAT-NO: 6868447

DOCUMENT-IDENTIFIER: US 6868447 B1

TITLE: Mechanism and apparatus for returning results of services in a distributed computing environment

DATE-ISSUED: March 15, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|---------------|-------|----------|---------|
| Slaughter; Gregory L. | Palo Alto | CA | | |
| Saulpaugh; Thomas E. | San Jose | CA | | |
| Traversat; Bernard A. | San Francisco | CA | | |
| Abdelaziz; Mohamed M. | Santa Clara | CA | | |

US-CL-CURRENT: 709/225; 719/315

ABSTRACT:

Systems and methods for returning results of services within a distributed computing environment are provided. After a client invokes one or more functions of a service, results of the function(s) may be returned to the client in a plurality of ways: for example, in a message, in a space (e.g., a network-addressable storage location), in a space wherein the client is notified via an event, using an advertisement returned in a message, using an advertisement returned in a space, and using an advertisement returned in a space wherein the client is notified via an event. The advertisement may include the information necessary to access and read the results in a storage location such as a space. A schema for the service may specify a plurality of messages which are usable to invoke the function(s) of the service. The messages, results, and advertisements may be expressed in a platform-independent and/or programming-language-independent data representation language such as XML. The availability of these plurality of methods may enhance the flexibility and adaptability of the distributed computing environment for a variety of situations, such as for clients having differing capabilities. For additional flexibility, results may also be efficiently passed to another service.

45 Claims, 64 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 45

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Page | Page |
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☐ 8. Document ID: US 6868444 B1

L6: Entry 8 of 49

File: USPT

Mar 15, 2005

US-PAT-NO: 6868444
DOCUMENT-IDENTIFIER: US 6868444 B1

TITLE: Server configuration management and tracking

DATE-ISSUED: March 15, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|--------------|-------|----------|---------|
| Kim; Steven D. | Aguora Hills | CA | | |
| Elazary; Lior | Agoura Hills | CA | | |

US-CL-CURRENT: 709/223; 709/220

ABSTRACT:

A web hosting system comprises a plurality of geographically separate web hosting facilities with a plurality of servers located at each of the facilities having internet resources hosted thereon. A network accessible centralized database remote from at least some of the web hosting facilities contains information comprising one or more of server serial number, server model, server facility location, server location within a facility, server speed, server memory capacity, server traffic, and server software configuration for at least some of the servers. In some embodiments, different users are allowed to access different information in the database.

26 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

| | | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | | Claims | Index | Drawings |
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☐ 9. Document ID: US 6865566 B2

L6: Entry 9 of 49

File: USPT

Mar 8, 2005

US-PAT-NO: 6865566
DOCUMENT-IDENTIFIER: US 6865566 B2

TITLE: Approach for re-using business rules

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------------|--------------------|-------|----------|---------|
| Serrano-Morales; Carlos A. | Sunnyvale | CA | | |
| Mellor; David J. | Burlingame | CA | | |
| Werner; Chris W. | Tabuadelo | | | PT |
| Marce; Jean-Luc | Sunnyvale | CA | | |
| Lerman; Marc | Fontenay sous Bois | | | FR |

US-CL-CURRENT: 706/47; 706/45, 706/46

ABSTRACT:

An approach is described for developing software that executes rules, such as business rules. A group of rule templates defines a rule structure for rules that may be executed by a rules engine. Separate ruleflow templates define tasks that entail the execution of rules. Each of the ruleflow templates associates a task with the group of rule templates. Because the ruleflow templates define the association between the tasks and the group of rule templates, during execution of the tasks a rules engine executes rules defined by the group of templates. User interfaces are automatically generated based on the group of rule templates. A user may interact with the user interfaces to edit the rules defined by the group of templates. After editing the rules, executing the tasks associated with the group of templates will cause execution of the modified rules.

20 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|----------|

☐ 10. Document ID: US 6862594 B1

L6: Entry 10 of 49

File: USPT

Mar 1, 2005

US-PAT-NO: 6862594

DOCUMENT-IDENTIFIER: US 6862594 B1

TITLE: Method and apparatus to discover services using flexible search criteria

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-----------|-------|----------|---------|
| Saulpaugh; Thomas E. | San Jose | CA | | |
| Slaughter; Gregory L. | Palo Alto | CA | | |

US-CL-CURRENT: 707/10; 707/3

ABSTRACT:

A service discovery protocol may allow clients in a distributed computing environment to search for services using flexible search criteria. A client may send a search message that may be formatted in a data representational language and may include search criteria. The search criteria may specify a service name or a service type or both a service name and a service type. The search criteria may be compared to advertisements for services within the distributed computing environment to find advertisements that match the search criteria. An advertisement may be a document in the data representation language that provides access information for a corresponding service. The client may receive one or more search response messages indicating one or more advertisements that match the search criteria. The client may obtain an advertisement for a located service and may use the advertisement to construct a message gate to communicate with the service.

according to messages defined by the advertisement.

36 Claims, 53 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 35

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | FIGS | Drawing |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|

☐ 11. Document ID: US 6850979 B1

L6: Entry 11 of 49

File: USPT

Feb 1, 2005

US-PAT-NO: 6850979
DOCUMENT-IDENTIFIER: US 6850979 B1

TITLE: Message gates in a distributed computing environment

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|---------------|-------|----------|---------|
| Saulpaugh; Thomas E. | San Jose | CA | | |
| Slaughter; Gregory L. | Palo Alto | CA | | |
| Traversat; Bernard A. | San Francisco | CA | | |
| Abdelaziz; Mohamed M. | Santa Clara | CA | | |

US-CL-CURRENT: 709/225, 710/240, 713/201, 719/315

ABSTRACT:

Embodiments of message gates are described. A message gate is the message endpoint for a client or service in a distributed computing environment. A message gate may provide a secure endpoint that sends and receives type-safe messages. Gates may perform the sending and receiving of messages between clients and services using a protocol specified in a service advertisement. In one embodiment, the messages are eXtensible Markup Language (XML) messages. For a client, a message gate represents the authority to use some or all of a service's capabilities. Each capability may be expressed in terms of a message that may be sent to the service. Creation of a message gate may involve an authentication service that generates an authentication credential, and that may negotiate the desired level of security and the set of messages that may be passed between client and service. A message gate may perform verification of messages against a message schema to ensure that the messages are allowed. Message gates may embed the authentication credential in outgoing messages so that the receiving message gate may authenticate the message. Messages may also include information to allow the receiving gate to verify that the message has not been compromised prior to receipt.

40 Claims, 54 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 34

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | FIGS | Drawing |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|---------|

☐ 12. Document ID: US 6850497 B1

L6: Entry 12 of 49

File: USPT

Feb 1, 2005

US-PAT-NO: 6850497

DOCUMENT-IDENTIFIER: US 6850497 B1

TITLE: Satellite trunked radio service system

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|------------|-------|----------|---------|
| Sigler; C. Edward | Myersville | MD | | |
| Sweet; Richard S. | San Diego | CA | | |
| Skerry; Brian | Chandler | AZ | | |
| Davies; George | White Rock | | | CA |
| Bossler; Dan | Osgoode | | | CA |
| Jones; John W. | Ontario | | | CA |

US-CL-CURRENT: 370/310

ABSTRACT:

In a mobile satellite system, a system for providing satellite communication between multiple users in a closed user group arrangement includes first and second mobile earth terminals (METs) responsively connector to and registering with the mobile satellite system. The first MET selects a closed user group network identifier (NET. ID) representing a NET group including the first and second METs to establish voice communication therewith and transmits the NET ID to a central controller. The central controller receives the NET ID from the first MET, validates the first MET for communication, validates the NET ID, allocates a frequency for the NET group, and broadcasts the message to the NET group including the second MET informing the NET group of the allocated frequency and the voice communication associated therewith. The second MET tunes to the frequency in response to the message broadcast by the central controller, and the central controller assigns the first MET as current speaker for the NET group.

23 Claims, 42 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 31

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|

☐ 13. Document ID: US 6847983 B2

L6: Entry 13 of 49

File: USPT

Jan 25, 2005

US-PAT-NO: 6847983

DOCUMENT-IDENTIFIER: US 6847983 B2

TITLE: Application independent write monitoring method for fast backup and synchronization of open files

DATE-ISSUED: January 25, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|-----------------|-------|----------|---------|
| Somalwar; Kiran | Pleasanton | NJ | 94588 | |
| Sinha; Dinesh | North Brunswick | NJ | 08902 | |

US-CL-CURRENT: 707/203; 707/9, 715/511

ABSTRACT:

An application independent method for monitoring file system requests made by any application program, storing changes made to a first copy of a selected file by the application program into a first file and synchronizing the selected file, whether the file is open or closed, with a second copy of the selected file. The monitoring and storing process is repeated each time a file system request to write into the selected file is made by the application program to track changes made to the selected file. At the time of synchronization, if the selected file is closed, all the changes that are stored in the first file are applied to a second copy of the selected file. If, however, the selected file is open, a portion of the changes are selected pursuant to a predetermined time period and applied to a second copy of the selected file. As a result, both copies of the selected files are identical, thereby synchronizing them. For open files, both copies of the selected file are identical up to the predetermined time period.

9 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|

☐ 14. Document ID: US 6842906 B1

L6: Entry 14 of 49

File: USPT

Jan 11, 2005

US-PAT-NO: 6842906

DOCUMENT-IDENTIFIER: US 6842906 B1

TITLE: System and method for a refreshable proxy pool in a communication services patterns environment

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|------------------|-------|----------|---------|
| Bowman-Amuah; Michel K. | Colorado Springs | CO | | |

US-CL-CURRENT: 719/330; 718/104, 718/105

ABSTRACT:

A system and method are provided for interfacing a naming service and a client with the naming service allowing access to a plurality of different sets of services from a plurality of globally addressable interfaces. As a result of the calls, proxies are generated based on the received locations of the global addressable interfaces. The proxies are received in an allocation queue where the proxies are then allocated in a proxy pool, wherein an allocation thread runs on the allocation queue and makes calls to the naming service and the allocation queue replenishes the proxy pool with the proxies. Access to the proxies in the proxy pool is allowed for identifying the location of one of the global addressable interfaces in response to a request received from the client.

15 Claims, 195 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 123

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|------|

☐ 15. Document ID: US 6842769 B1

L6: Entry 15 of 49

File: USPT

Jan 11, 2005

US-PAT-NO: 6842769

DOCUMENT-IDENTIFIER: US 6842769 B1

TITLE: Automatically configured network server

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|--------------|-------|----------|---------|
| Kim; Steven D. | Agoura Hills | CA | | |
| Elazary; Lior | Agoura | CA | | |

US-CL-CURRENT: 709/203; 709/217, 709/220, 717/171, 717/172, 717/174

ABSTRACT:

A network server runs a routine that is triggered by an external database management program. The routine receives configuration parameters from the database, and configures application programs resident on the server in accordance therewith.

22 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|------|

☐ 16. Document ID: US 6836478 B1

L6: Entry 16 of 49

File: USPT

Dec 28, 2004

US-PAT-NO: 6836478

DOCUMENT-IDENTIFIER: US 6836478 B1

TITLE: Call hold with reminder and information push

DATE-ISSUED: December 28, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-------------|-------|----------|---------|
| Huang; Laura | Annandale | NJ | | |
| Kung; Fen-Chung | Bridgewater | NJ | | |
| Russell; Jesse Eugene | Piscataway | NJ | | |
| Walker; Hopeton | Haledon | NJ | | |
| Wang; Spencer | Parsippany | NJ | | |

US-CL-CURRENT: 370/352; 370/389, 370/395.5, 370/433, 370/493

ABSTRACT:

A broadband communication system including an Internet Protocol Telephony Network and public switched telephone network, including apparatus and methods for placing a call on hold in a way that significantly reduces the amount of network bandwidth utilized by the call while the call is on hold. When a call is placed on hold, embodiments of the architecture of the telephony network of the present invention allows the network to essentially "forget" about the call placed on hold. In other words, a call that is on hold may require very little, or even zero, bandwidth within the telephony network. Accordingly, the total necessary bandwidth capacity of the telephony network may be smaller than it would be if calls on hold were to consume precious network bandwidth as is found in existing telephony systems.

5 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|

☐ 17. Document ID: US 6834157 B2

L6: Entry 17 of 49

File: USPT

Dec 21, 2004

US-PAT-NO: 6834157

DOCUMENT-IDENTIFIER: US 6834157 B2

TITLE: Information signal processing apparatus

DATE-ISSUED: December 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-------|-------|----------|---------|
| Yamagishi; Yoichi | Tokyo | | | JP |

US-CL-CURRENT: 386/107; 386/117

ABSTRACT:

An information signal processing apparatus according to the present invention is arranged to receive, as an input, an information signal to temporarily store therein the input information signal and to temporarily store therein management information prepared during a recording of the information signal in the recording medium, thereby recording the temporarily stored information signal and management information in the recording medium. Accordingly, it is possible to record an information signal having a large amount of information in the recording medium without lowering a recording speed and it is also possible to easily reduce the size, weight and cost of the apparatus.

2 Claims, 70 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 69

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|

☐ 18. Document ID: US 6826405 B2

L6: Entry 18 of 49

File: USPT

Nov 30, 2004

US-PAT-NO: 6826405

DOCUMENT-IDENTIFIER: US 6826405 B2

TITLE: Apparatus and method for intelligent routing of data between a remote device and a host system

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Doviak; William | Pottstown | PA | | |
| Whitmore; David L. | Bethlehem | PA | | |
| Houvig; Flex | Wayne | PA | | |

US-CL-CURRENT: 455/445; 455/552.1

ABSTRACT:

An apparatus and method is provided for transparent communication between a remote or mobile device and a fixed communication host network. The apparatus and method may include a remote network controller that logically resides between the host network and the existing infrastructure(s) that are used to provide communications network contact with one or more remote devices. The remote network controller is connected to the host communication network as a protocol-appropriate communications controller so that remote devices are indistinguishable to the host network from the locally-attached devices. Each remote device may be provided with

an asynchronous serial data interface to communicate with a mobile data controller. The mobile data controller, in combination with the remote network controller, provides end-to-end data communication such that incompatible protocols are transparent to the remote device and host communication network. A router may be provided which selects a communications network in accordance with user configured parameters. The router communicates over a plurality of incompatible networks and is capable of using a variety of different protocols. Switching between the plurality of incompatible networks is transparent to the remote device and host communication network.

72 Claims, 38 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 38

| Full | Title | Citation | Front | Revision | Classification | Date | Reference | Claims | Index | Drawings |
|------|-------|----------|-------|----------|----------------|------|-----------|--------|-------|----------|
|------|-------|----------|-------|----------|----------------|------|-----------|--------|-------|----------|

☐ 19. Document ID: US 6826173 B1

L6: Entry 19 of 49

File: USPT

Nov 30, 2004

US-PAT-NO: 6826173

DOCUMENT-IDENTIFIER: US 6826173 B1

TITLE: Enhanced subscriber IP alerting

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-------------|-------|----------|---------|
| Kung; Fen-Chung | Bridgewater | NJ | | |
| Russell; Jesse Eugene | Piscataway | NJ | | |
| Sankalia; Anish | Iselin | NJ | | |
| Walker; Hopeton | Haledon | NJ | | |
| Wang; Spencer | Parsippany | NJ | | |

US-CL-CURRENT: 370/352; 370/261, 370/392, 379/205.01, 379/207.13

ABSTRACT:

A method of alerting a user of a variable bit rate communication between a first terminal and a distant terminal over alternative networks including a circuit switched network and a packet network permits the user the opportunity to change alerting preferences from a remote location or locally and to predetermine instructions for a calling party. A method of alerting a broadband user at a first terminal of an incoming multimedia call from a particular calling party comprises the steps of receiving input data at a broadband gateway of user preferences of calling parties, calling party locations, and terminal configuration data for a terminal normally utilized by the user, alerting a called user by utilizing a user-defined alerting scheme, the scheme including identifying the multimedia call as one specifically intended for the user among a plurality of different users and identifying one of the identity or the location of the calling party, comparing the identity or location with said user preferences and alerting the calling party of the priority of the call, the priority of the call including an indication of

whether the called party has left instructions for the calling party. In accordance with a further embodiment, a method of alerting a broadband user at a first terminal of an incoming multimedia call from a particular calling party comprises the steps of receiving input data at a broadband gateway of user preferences of calling parties, calling party locations, and terminal configuration data for a terminal normally utilized by the user, comparing the user preferences with data describing the incoming multimedia call, and, if the terminal normally utilized by the user is not appropriate for the call, alerting the called user to one of moving to another terminal or arranging to equip said terminal so that the terminal is appropriate for the call.

2 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Fig. 1 | Fig. 2 | Claims | Index | Draw. 1 |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|--------|--------|-------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|--------|--------|-------|---------|

☐ 20. Document ID: US 6816469 B1

L6: Entry 20 of 49

File: USPT

Nov 9, 2004

US-PAT-NO: 6816469
DOCUMENT-IDENTIFIER: US 6816469 B1

TITLE: IP conference call waiting

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|-------------|-------|----------|---------|
| Kung; Fen-Chung | Bridgewater | NJ | | |
| Walker; Hopeton | Haledon | NJ | | |
| Wang; Spencer | Parsippany | NJ | | |

US-CL-CURRENT: 370/260; 370/261, 370/262, 370/263, 379/202.01, 379/207.01,
379/215.01, 709/204, 709/223, 709/231

ABSTRACT:

An Internet Protocol Telephony Network and public switched telephone network that allows one or more call waiting callers to dynamically join in an existing and to establish a multiple-party conference call including the call waiting call. A call waiting call may also be added to an existing conference call.

2 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Fig. 1 | Fig. 2 | Claims | Index | Draw. 1 |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|--------|--------|-------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|--------|--------|-------|---------|

☐ 21. Document ID: US 6810479 B1

L6: Entry 21 of 49

File: USPT

Oct 26, 2004

US-PAT-NO: 6810479

DOCUMENT-IDENTIFIER: US 6810479 B1

TITLE: System and method for configuring and managing resources on a multi-purpose integrated circuit card using a personal computer

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|----------|-------|----------|---------|
| Barlow; Doug | Redmond | WA | | |
| Dillaway; Blair | Redmond | WA | | |
| Fox; Barbara | Seattle | WA | | |
| Lipscomb; Terry | Bellevue | WA | | |
| Spies; Terrence | Kirkland | WA | | |

US-CL-CURRENT: 713/185; 705/66, 713/193

ABSTRACT:

A computerized system offers a uniform platform for conducting electronic transactions in multiple different environments. The system includes a portable, multi-purpose, integrated circuit (IC) card and complimentary computer software which enables access and management of resources maintained on the IC card. The software runs on a user's personal computer, empowering the user to initialize the IC card, configure the card with the resources that the user wants to maintain on the card, and to manage those resources. The software enables the user to generate private/public key pairs and establish or change passcodes for access to the card resources. The IC card itself provides the electronic vehicle for securely transporting the user's private keys and certificates without exposing them in plaintext form. The IC card is designed with enough processing capabilities to perform rudimentary cryptographic functions so that the private keys may be employed for signing or encryption without ever being released from the card.

8 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|

☐ 22. Document ID: US 6798345 B2

L6: Entry 22 of 49

File: USPT

Sep 28, 2004

US-PAT-NO: 6798345

DOCUMENT-IDENTIFIER: US 6798345 B2

TITLE: Administrative system

DATE-ISSUED: September 28, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|-------|-------|----------|---------|
| Satoh; Kazuhiko | Tokyo | | | JP |

US-CL-CURRENT: 340/573.1; 340/542, 340/825.36, 340/825.49, 340/825.52

ABSTRACT:

An administrative system provided with surveillance equipment, which is arranged in a plurality of locations on a patrol surveillance route, for (1) reading identification information stored in an information storage medium carried by surveillance staff, and (2) transmitting the identification information. The system is also provided with management devices for (1) receiving the identification information transmitted by the surveillance equipment and (2) storing the identification information in relation to identification information that identifies the surveillance equipment.

20 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|

☐ 23. Document ID: US 6795830 B1

L6: Entry 23 of 49

File: USPT

Sep 21, 2004

US-PAT-NO: 6795830

DOCUMENT-IDENTIFIER: US 6795830 B1

**** See image for Certificate of Correction ****

TITLE: Techniques for providing off-host storage for a database application

DATE-ISSUED: September 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|--------------|-------|----------|---------|
| Banerjee; Niloy | San Mateo | CA | | |
| So; John John E. | Redwood City | CA | | |
| Rocha; Michael | Hillsborough | CA | | |

US-CL-CURRENT: 707/200; 707/10, 707/2, 707/201

ABSTRACT:

Techniques for distributing database functions in a system of database devices includes performing database management tasks for a database on a first device connected to a network. The first device is designated a database host. Data file storage and retrieval tasks for the database are sent to a second device connected to the network. The second device is designated an off-host storage device.

The first device may be a database server appliance, which includes a processor; a database server process, a special purpose operating system and non-volatile storage. The database server process persistently stores data files for the database on a second device connected to the database server appliance over a network. The special purpose operating system has features and configuration that are dictated by the database server and supporting components. The non-volatile storage is sufficiently large to store and execute instructions that cause the processor to perform as the database server process and the special purpose operating system and not sufficiently large to store all data files in the database.

These techniques increase reliability of the database on the network by insulating database server processes from the storage system. These techniques also allow sharing of a high performance storage system among multiple database server appliances.

13 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 24

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|-------|----------|

☐ 24. Document ID: US 6792466 B1

L6: Entry 24 of 49

File: USPT

Sep 14, 2004

US-PAT-NO: 6792466

DOCUMENT-IDENTIFIER: US 6792466 B1

**** See image for Certificate of Correction ****

TITLE: Trusted construction of message endpoints in a distributed computing environment

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|---------------|-------|----------|---------|
| Saulpaugh; Thomas E. | San Jose | CA | | |
| Slaughter; Gregory L. | Palo Alto | CA | | |
| Traversat; Bernard A. | San Francisco | CA | | |
| Pouyoul; Eric | San Francisco | CA | | |

US-CL-CURRENT: 709/229; 707/10, 709/201, 709/203, 709/217, 709/218, 709/226, 709/227, 709/228

ABSTRACT:

In a distributed computing environment, a message gate may be the message endpoint for a client or service to communicate with another client or service. Devices may have a gate factory (e.g. message endpoint constructor) that is trusted code on the device for generating gates based on XML message descriptions. The use of the gate factory may ensure that the gate it generates is also trusted code, and that the code is correct with respect to a service advertisement. A service advertisement

may indicate, for a particular service, a message schema, service URI and authentication service URI. In one embodiment, the pieces the gate factory needs to construct a gate are the XML schema of the service and the URI of the service. In another embodiment, an authentication credential may also be obtained and used in gate construction by running an authentication service specified in the service advertisement. A gate factory for a device may generate gate code that may incorporate the language, security, type safety, and/or execution environment characteristics of the local device platform. By constructing gates itself, a device has the ability to ensure that the generated gate code is relatively bug-free, produces only valid data, and provides type-safety.

43 Claims, 53 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 34

| | | | | | | | | | | | |
|------|-------|----------|-------|----------|----------------|------|-----------|----------|--------|-------|--------|
| Full | Title | Citation | Front | Revision | Classification | Date | Reference | Abstract | Claims | Index | Figure |
|------|-------|----------|-------|----------|----------------|------|-----------|----------|--------|-------|--------|

☐ 25. Document ID: US 6789126 B1

L6: Entry 25 of 49

File: USPT

Sep 7, 2004

US-PAT-NO: 6789126
DOCUMENT-IDENTIFIER: US 6789126 B1

TITLE: Addressing message gates in a distributed computing environment

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|---------------|-------|----------|---------|
| Saulpaugh; Thomas E. | San Jose | CA | | |
| Slaughter; Gregory L. | Palo Alto | CA | | |
| Pouyoul; Eric | San Francisco | CA | | |

US-CL-CURRENT: 709/245; 709/201, 709/206, 709/217, 709/227

ABSTRACT:

A message gate is the message endpoint for a client or service in a distributed computing environment. A message gate may provide a secure message endpoint that sends and receives type-safe messages. A gate may have a gate name that is a unique ID that refers only to the gate. In one embodiment, a gate is assigned a gate name when the gate is created and the gate name refers to only that gate for the life of the gate. A gate may be addressed using its gate name. The name may allow clients and services to migrate about the network and still work together. In a preferred embodiment, the gate address is independent of the physical message transport address and/or socket layer. Thus, a gate name may provide a virtual message endpoint address that may be bound and un-bound to a message transport address.

45 Claims, 59 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 39

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Drawings | Abstract | Index | Page |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|----------|----------|-------|------|
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☐ 26. Document ID: US 6789103 B1

L6: Entry 26 of 49

File: USPT

Sep 7, 2004

US-PAT-NO: 6789103

DOCUMENT-IDENTIFIER: US 6789103 B1

TITLE: Synchronized server parameter database

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|--------------|-------|----------|---------|
| Kim; Steven D. | Agoura Hills | CA | | |
| Elazary; Lior | Agoura | CA | | |

US-CL-CURRENT: 709/203; 707/10, 707/9, 709/217, 709/218, 709/220, 709/221, 709/222, 709/223, 709/238, 709/239, 717/168

ABSTRACT:

A network server manager includes a database of application program configuration parameters. The server manager additionally includes a dispatch module for routing configuration parameters to network servers so as to maintain synchronization between the database content and the configuration of the network servers.

17 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Drawings | Abstract | Index | Page |
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☐ 27. Document ID: US 6789077 B1

L6: Entry 27 of 49

File: USPT

Sep 7, 2004

US-PAT-NO: 6789077

DOCUMENT-IDENTIFIER: US 6789077 B1

TITLE: Mechanism and apparatus for web-based searching of URI-addressable repositories in a distributed computing environment

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-----------|-------|----------|---------|
| Slaughter; Gregory L. | Palo Alto | CA | | |
| Saulpaugh; Thomas E. | San Jose | CA | | |

Traversat; Bernard A. San Francisco CA
Abdelaziz; Mohamed M. Santa Clara CA

US-CL-CURRENT: 707/10; 707/4

ABSTRACT:

A system and method for searching for Internet-based repositories within a distributed computing environment are provided. A client on a device may interact with a search service on the same or a different device to find spaces (i.e., network-accessible XML object repositories) for storage and/or retrieval of data. The client may send an XML search request to the search service. The search request may include one or more desired characteristics, such as keywords, which are sought of a space. Based upon the search request, the search service may generate search results including locations (e.g., URIs) of one or more resulting spaces. The spaces may include web pages. In generating the search results, the search service may interact with a network-accessible third-party search engine, such as a browser-accessible search engine. The search service may obtain a service advertisement for each of the resulting spaces. Each service advertisement includes information which is usable to access the respective space. The search service may send the search results, including the advertisements and/or URIs, to the client to enable the client to access the resulting spaces at their respective locations. The search service may store the search results in a results space and send the address of the results space to the client.

30 Claims, 57 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 37

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
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☐ 28. Document ID: US 6788980 B1

L6: Entry 28 of 49

File: USPT

Sep 7, 2004

US-PAT-NO: 6788980

DOCUMENT-IDENTIFIER: US 6788980 B1

TITLE: Methods and apparatus for control using control devices that provide a virtual machine environment and that communicate via an IP network

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|---------|-------|----------|---------|
| Johnson; Alexander | Houston | TX | | |

US-CL-CURRENT: 700/1; 700/18, 700/19, 700/2, 700/86, 718/1, 718/100

ABSTRACT:

The invention provides improved methods and apparatus for control using field and control devices that provide a virtual machine environment and that communicate via

an IP network. By way of non-limiting example, such field device can be an "intelligent" transmitter or actuator that includes a low power processor, along with a random access memory, a read-only memory, FlashRAM, and a sensor interface. The processor can execute a real-time operating system, as well as a Java virtual machine (JVM). Java byte code executes in the JVM to configure the field device to perform typical process control functions, e.g., for proportional integral derivative (PID) control and signal conditioning. Control networks can include a plurality of such field and control devices interconnected by an IP network, such as an Ethernet.

7 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
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☐ 29. Document ID: US 6788688 B2

L6: Entry 29 of 49

File: USPT

Sep 7, 2004

US-PAT-NO: 6788688

DOCUMENT-IDENTIFIER: US 6788688 B2

TITLE: System and method for providing peer-oriented control of telecommunications services

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------------|---------|-------|----------|---------|
| Trebes, Jr.; Harold Herman | Atlanta | GA | 30306 | |

US-CL-CURRENT: 370/395.1; 370/260, 370/351, 370/396, 370/401, 370/410

ABSTRACT:

In a telecommunications network environment including non-participating elements and participating elements, a method for providing a telecommunications service between a first peer element connected to the telecommunications network environment and a second peer element connected to the telecommunications network. At a first peer element, an indication of the type of telecommunications service to be provided between the first peer element and the second peer element is received. A telecommunications service template in association with the indicated telecommunications service is determined, the telecommunications service template including instructions for configuring the non-participating elements of the telecommunications network environment to provide the indicated telecommunications service and instructions for configuring the participating elements of the telecommunications network environment. The telecommunications service template may further comprise routing instructions for the non-participating elements of the telecommunications network environment and routing instructions for the participating elements of the telecommunications network environment. The instructions to configure the participating elements and non-participating elements of the telecommunications network environment are executed to provide the telecommunications service. Data between the first peer element and the second peer

element is transmitted via a predefined transmission protocol indicated by the telecommunications service template, the data including the routing instructions for the non-participating elements of the telecommunications network environment in a header portion of the predefined transmission protocol and the routing instructions for the participating elements of the telecommunications network environment in a payload portion of the predefined transmission protocol.

6 Claims, 106 Drawing figures
Exemplary Claim Number: 6
Number of Drawing Sheets: 97

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Page | Draw |
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☐ 30. Document ID: US 6785686 B2

L6: Entry 30 of 49

File: USPT

Aug 31, 2004

US-PAT-NO: 6785686
DOCUMENT-IDENTIFIER: US 6785686 B2

TITLE: Method and system for creating and utilizing managed roles in a directory system

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|---------------|-------|----------|---------|
| Boreham; David | Livingston | MT | | |
| Rowley; Peter | Mountain View | CA | | |
| Smith; Mark C. | Saline | MI | | |

US-CL-CURRENT: 707/102; 707/100

ABSTRACT:

Role is a comprehensive grouping mechanism. In a client-server directory system, roles transfer some of the complexity to the directory server. A role is defined by its role definition entry. Any client with appropriate access privileges can discover, identify and examine any role definition. A "managed" role is one that can be configured to provide search results similar to those available with a static grouping mechanism, i.e., to create a group entry that contains a list of members. Managed roles allow a user to create an explicit enumerated list of members. A managed role is a label stored with a directory entry.

16 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Page | Draw |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|------|
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☐ 31. Document ID: US 6785288 B1

L6: Entry 31 of 49

File: USPT

Aug 31, 2004

US-PAT-NO: 6785288

DOCUMENT-IDENTIFIER: US 6785288 B1

TITLE: High-speed internet access system

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------|------------|-------|----------|---------|
| Enns; Frederick | Menlo Park | CA | | |
| Moura; Eduardo J. | San Jose | CA | | |
| Gronski; Jan Maksymilian | Palo Alto | CA | | |
| Neelmegh; Ramesh | Fremont | CA | | |
| Kim; Jong C. | Sunnyvale | CA | | |

US-CL-CURRENT: 370/401; 370/404

ABSTRACT:

An asymmetric network system manages bandwidth allocation and configuration of remote devices in a broadband network. A modular architecture of the system permits independent scalability of upstream and downstream capacity separately for each of the upstream and downstream physical paths. Allocation of downstream bandwidth to requesting devices is made according to bandwidth utilization by other devices, bandwidth demand by the requesting remote device, class or grade of service by the requesting remote device or bandwidth guaranteed to other remote devices.

7 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
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☐ 32. Document ID: US 6779030 B1

L6: Entry 32 of 49

File: USPT

Aug 17, 2004

US-PAT-NO: 6779030

DOCUMENT-IDENTIFIER: US 6779030 B1

TITLE: Intelligent network

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------|----------|-------|----------|---------|
| Dugan; Andrew | Superior | CO | | |

| | | | |
|------------------|------------------|----|----|
| Holmes; Allen M. | Colorado Springs | CO | |
| Robb; Terence A. | Colorado Springs | CO | |
| Deo; Ajay P. | Lewisville | TX | |
| Syed; Sami | Tervuren | | BE |
| Wong; Wendy T. | Dallas | TX | |

US-CL-CURRENT: 709/223; 379/221.08

ABSTRACT:

In a telecommunications switching network having a resource complex including network switches, an intelligent service platform for providing intelligent call processing and service execution for call events received at the switches and requiring call processing services. A centralized administration system is provided that comprises a system for storing one or more reusable business objects that each encapsulate a distinct call processing function, and any associated data required by the business object; a system for distributing selected business objects and associated data to selected nodes in the switching network based on pre-determined node configuration criteria; and, a system for activating the business objects in preparation for real-time use. A computing platform is provided within each node for executing those business objects required to perform a service in accordance with an event received at the network switch. Also within a node is a storage and retrieval system for sorting and retrieving selected objects and any associated data distributed by the administration system, and making them locally available to the computing platform when required to perform a service. An underlying location-independent communication system is provided to coordinate interaction of one or more business objects to perform the service in response to needs of the received event.

37 Claims, 83 Drawing figures
Exemplary Claim Number: 30
Number of Drawing Sheets: 61

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|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Drawings |
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☐ 33. Document ID: US 6779000 B1

L6: Entry 33 of 49

File: USPT

Aug 17, 2004

US-PAT-NO: 6779000

DOCUMENT-IDENTIFIER: US 6779000 B1

TITLE: Access method with process interactive service

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| Northrup; Charles J. | Old Bridge | NJ | 08857 | |

US-CL-CURRENT: 707/200; 707/103R, 719/330

ABSTRACT:

The present invention provides a virtual network, sitting "above" the physical connectivity and thereby providing the administrative controls necessary to link various communication devices via an Access-Method-Independent Exchange. In this sense, the Access-Method-Independent Exchange can be viewed as providing the logical connectivity required. In accordance with the present invention, connectivity is provided by a series of communication primitives designed to work with each of the specific communication devices in use. As new communication devices are developed, primitives can be added to the Access-Method-Independent Exchange to support these new devices without changing the application source code. A Thread Communication Service is provided, along with a Binding Service to link Communication Points. A Thread Directory Service is available, as well as a Broker Service and a Thread Communication Switching Service. Intraprocess, as well as Interprocess, services are available. Dynamic Configuration Management and a Configurable Application Program Service provide software which can be commoditized, as well as upgraded while in operation.

20 Claims, 154 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 114

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
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☐ 34. Document ID: US 6775829 B1

L6: Entry 34 of 49

File: USPT

Aug 10, 2004

US-PAT-NO: 6775829

DOCUMENT-IDENTIFIER: US 6775829 B1

**** See image for Certificate of Correction ****

TITLE: Method for configuring software for a build to order system

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|--------------|-------|----------|---------|
| Kroening; James L. | Dakota Dunes | SD | | |

US-CL-CURRENT: 717/175; 717/120, 717/121, 717/168, 717/172, 717/174, 717/177, 717/178

ABSTRACT:

The present invention is directed to a method of building a custom software configuration, which may include receiving a first customer order for a first information handling system and a second customer order for a second information handling system. The first customer order including a first list of hardware configuration components and a first list of software configuration components and the second customer order including second list of hardware configuration components and a second list of software configuration components. At least one of the first list of hardware configuration components is different from the second list of hardware configuration components and the first list of software

configuration components is different from the second list of software configuration components. At least one software configuration is stored on a removable medium, the at least one software configuration suitable for loading at least one of the first list of software configuration components and the second list of software configuration components onto at least one of the first information handling system and the second information handling system.

23 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

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|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Index | Drawings |
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☐ 35. Document ID: US 6775273 B1

L6: Entry 35 of 49

File: USPT

Aug 10, 2004

US-PAT-NO: 6775273

DOCUMENT-IDENTIFIER: US 6775273 B1

TITLE: Simplified IP service control

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-------------|-------|----------|---------|
| Kung; Fen-Chung | Bridgewater | NJ | | |
| Russell; Jesse Eugene | Piscataway | NJ | | |
| Walker; Hopeton | Haledon | NJ | | |
| Wang; Spencer | Parsippany | NJ | | |

US-CL-CURRENT: 370/356; 370/392, 370/401, 370/469

ABSTRACT:

The present invention includes a number of systems and techniques for service control for a broadband communications system that includes voice, data and multimedia audio and video communication. One variation of the present invention includes service control based on multiple relationships between equipment specific unique media access control (MAC) addresses, system addresses and directory numbers to enable the properly route traffic between the broadband communication system and legacy telephone systems. In this case, one server, for example a dynamic host control protocol (DHCP) server is used to assign system addresses to equipment unique MAC addresses and another server, for example a call manager (CM) server is used to assign directory numbers to the system addresses. Another variation of the present invention includes service control based on multiple relationships between equipment specific unique media access control (MAC) addresses and directory numbers (DNs) to enable the properly route traffic between the broadband communication system and legacy telephone systems. In this case the DHCP server is not needed to assign system addresses to MAC addresses.

5 Claims, 9 Drawing figures

Exemplary Claim Number: 3

| | | | | | | | | | | | | |
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Page | Draw |
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☐ 36. Document ID: US 6775267 B1

L6: Entry 36 of 49

File: USPT

Aug 10, 2004

US-PAT-NO: 6775267

DOCUMENT-IDENTIFIER: US 6775267 B1

TITLE: Method for billing IP broadband subscribers

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|-------------|-------|----------|---------|
| Kung; Fen-Chung | Bridgewater | NJ | | |
| Sankalia; Anish | Iselin | NJ | | |
| Walker; Hopeton | Haledon | NJ | | |
| Wang; Spencer | Parsippany | NJ | | |

US-CL-CURRENT: 370/352; 370/395.21, 370/401, 379/114.06

ABSTRACT:

A method of billing a variable bit rate communication between a first terminal and a distant terminal to a broadband subscriber permits changing billing parameters during a call in real time in response to user inputs including user requested changes in quality of service, changes in data rate and changes in preferred service provider. A variable bit rate communication to be billed has a variable quality of service related to the degree of utilization of a plurality of different networks. The billing method comprises the steps of: i.) receiving user identification data at a first terminal and data representing a required bit rate and a default quality of service selected by the user, ii.) verifying the user identification data to be associated with the broadband service subscriber, iii.) determining least cost alternative network resources available for achieving the communication at the user selected default quality of service and the required bit rate, iv.) determining cost data associated with the network resources, v.) outputting to the user a least cost for the communication according to their selected default quality of service and alternative least cost network resources, vi.) coupling the first terminal and the distant terminal via the least cost determined network resources at the default quality of service and the required bit rate responsive to user authorization and vii.) billing for the communication at the default quality of service and according to the required bit rate after the termination of the communication.

15 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

| | | | | | | | | | | | | |
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | Page | Draw |
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☐ 37. Document ID: US 6768988 B2

L6: Entry 37 of 49

File: USPT

Jul 27, 2004

US-PAT-NO: 6768988

DOCUMENT-IDENTIFIER: US 6768988 B2

TITLE: Method and system for incorporating filtered roles in a directory system

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|---------------|-------|----------|---------|
| Boreham; David | Livingston | MT | | |
| Rowley; Peter | Mountain View | CA | | |
| Smith; Mark C. | Saline | MI | | |

US-CL-CURRENT: 707/3; 707/9

ABSTRACT:

Several types of roles are disclosed herein. The difference between the role types relates to their capabilities, which in turn derive from how they are implemented. When a client application wishes to identify all entries with some characteristic, e.g., everyone who is a manager and works in a designated building, a filtered role, which uses an LDAP filter in order to search a designated portion of the directory system and to identify those entries that possess the characteristics described in filter, is used.

17 Claims, 24 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 24

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Drawings |
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☐ 38. Document ID: US 6768722 B1

L6: Entry 38 of 49

File: USPT

Jul 27, 2004

US-PAT-NO: 6768722

DOCUMENT-IDENTIFIER: US 6768722 B1

TITLE: Systems and methods for managing multiple communications

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------|-----------|-------|----------|---------|
| Katseff; Howard Paul | Marlboro | NJ | | |
| Markowitz; Robert Edward | Glen Rock | NJ | | |

US-CL-CURRENT: 370/260; 379/207.01

ABSTRACT:

The present invention enables a party which is placed on hold in a first communication session to enter a second communication session and continue to monitor the status of the first communication. For example, in a broadband communication system telephone call or multimedia call, two parties may be in an active communication session with one another and a first of the two parties to the call may receive another incoming call. The first party then places the second party on hold. At this time the second party may wish to place the communication session with the first party on hold to initiate another communication session with a third party. However, the second party would also like to know when the first party takes the communication session off hold so that they can resume their communication. As a result, the second party places the communication on "monitor" hold. While the communication is on monitor hold, the second party is able to monitor the on hold communication session to recognize when the first party returns. For example, the monitored call on hold may be maintained at a reduced volume or a video display of the video in a multimedia communication session may be displayed in a reduced window size on a display. Further, the present invention provides prompts to various parties of a communication session when one or more parties to the communication session are placed on hold or taken off hold. For example, the system may generate a prompt to one or more parties when a communication session is placed on hold or monitor hold, or when a communication session on hold or monitor hold is taken off hold.

14 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
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☐ 39. Document ID: US 6766165 B2

L6: Entry 39 of 49

File: USPT

Jul 20, 2004

US-PAT-NO: 6766165

DOCUMENT-IDENTIFIER: US 6766165 B2

TITLE: Method and system for remote and local mobile network management

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Sharma; Shallendra | Sunnyvale | CA | | |
| Truong; Hung | San Jose | CA | | |

US-CL-CURRENT: 455/423; 370/241, 370/245, 455/418, 455/67.11

ABSTRACT:

Systems and methods of providing mobile network management of assets on a network are presented. In accordance with the method, a network management server is provided to control a network asset on a network. The network asset is connected to the network management server via a connection path. A secure communication path is established between the network management server and a mobile wireless capable device. The network asset is managed via the secure communication path with the mobile wireless capable device. The network is administered via the secure communication path with the mobile wireless capable device.

25 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

| Full | Title | Citation | Front | Revision | Classification | Date | Reference | USPTO | USPTO | Claims | Index | Drawings |
|------|-------|----------|-------|----------|----------------|------|-----------|-------|-------|--------|-------|----------|
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☐ 40. Document ID: US 6763360 B2

L6: Entry 40 of 49

File: USPT

Jul 13, 2004

US-PAT-NO: 6763360
DOCUMENT-IDENTIFIER: US 6763360 B2

TITLE: Automated language and interface independent software testing tool

DATE-ISSUED: July 13, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|----------|-------|----------|---------|
| Hartley; David J. | Bellevue | WA | | |

US-CL-CURRENT: 707/102; 707/104.1

ABSTRACT:

Measuring the reliability of a version of a software module in a customized manner that is independent of the written language used by versions of the software module to output objects. Language independent state tables may be generated from one version of a software module and then used to facilitate measuring the reliability of other versions of the software module. During the testing process, standardized pointers are used to reference objects that are common to a plurality of versions of a software module. Parameters representative of an actual state of a software module are compared to parameters representative of an anticipated state of the software module to determine if an action has performed as intended. Customized functions may be automatically loaded during the testing process and may receive data standardized for use with a plurality of version of a software module via common function headers.

46 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
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☐ 41. Document ID: US 6763018 B1

L6: Entry 41 of 49

File: USPT

Jul 13, 2004

US-PAT-NO: 6763018

DOCUMENT-IDENTIFIER: US 6763018 B1

TITLE: Distributed protocol processing and packet forwarding using tunneling protocols

DATE-ISSUED: July 13, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------------|-------------------|-------|----------|---------|
| Puthiyandyil; Sanil Kumar | Schaumburg | IL | | |
| Harper; Matthew H. | Arlington Heights | IL | | |
| Kung; Ching | Mt. Prospect | IL | | |
| Radhakrishnan; Shaji | Des Plaines | IL | | |
| Ramankutty; Rajesh | Schaumburg | IL | | |

US-CL-CURRENT: 370/352; 370/355, 370/401, 370/469, 375/222

ABSTRACT:

A high density network access server implements a tunneling protocol between a modem module and a route server module. PPP and routing control packets received from the PPP link are tunneled to the route server for processing. The IP data packet forwarding function for the network access server is distributed directly to the modem modules. The combination of distributed PPP processing and distributed IP data packet forwarding enables the capacity of the network access server to be scaled to orders of magnitude greater than previously known, to handle thousands or even tens of thousands of simultaneous data sessions.

21 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
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☐ 42. Document ID: US 6760324 B1

L6: Entry 42 of 49

File: USPT

Jul 6, 2004

US-PAT-NO: 6760324

DOCUMENT-IDENTIFIER: US 6760324 B1

TITLE: Method, system, and computer program product for providing voice over the internet communication

DATE-ISSUED: July 6, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|---------------|-------|----------|---------|
| Scott; Mark | Ashburn | VA | | |
| Cheng; Anita | Ashburn | VA | | |
| Ho; Simon | Ashburn | VA | | |
| Irimescu; George | Etobicoke | | | CA |
| Voineag; Dorel | Toronto | | | CA |
| Wong; William | Richmond Hill | | | CA |
| Yao; Min | Falls Church | VA | | |
| Zadeh; Row J. | Anchorage | KY | | |

US-CL-CURRENT: 370/352; 370/401, 379/121.04

ABSTRACT:

A method, system, and computer program product that provides voice over the Internet communication. A Voice over the Internet (VoIP) system includes a gateway server that handles calls received from a public switched telephone network and a packet-switched network, a routing server, and a database server. Messages can be sent between the gateway server, routing server, and database server over the packet-switched network. A provisioning system is coupled to the database server. A management system is also coupled to the gateway server, routing server, database server, and management system over the packet-switched network. A network manager automatically queries a client database to determine an update, and sends a message representative of the update to at least one of the gateway server, routing server, database server, and management system over the packet-switched network. A licensing server supports licensing of the VoIP system.

6 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

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|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | Index | Drawings |
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☐ 43. Document ID: US 6754844 B1

L6: Entry 43 of 49

File: USPT

Jun 22, 2004

US-PAT-NO: 6754844

DOCUMENT-IDENTIFIER: US 6754844 B1

TITLE: Diagnostic configuration management of embedded network devices

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------------|-------|----------|---------|
| Mitchell; Bradley W. | Eagle Mountain | UT | | |

US-CL-CURRENT: 714/4; 702/186, 714/25

ABSTRACT:

Configuration of an embedded network device is described. The configuration technique described can be accomplished by a single process in order to provide a complete and consistent configuration. Various tests are performed including heuristic checks that check for common configuration errors. Other hardware and software tests are also performed. In one embodiment, the embedded network device includes an operating system kernel stored in memory and executed by a processor. During configuration, extensions to the operating system as well as application-level upgrades can be provided.

24 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--|--------|-------|----------|
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☐ 44. Document ID: US 6754718 B1

L6: Entry 44 of 49

File: USPT

Jun 22, 2004

US-PAT-NO: 6754718

DOCUMENT-IDENTIFIER: US 6754718 B1

TITLE: Pushing attribute information to storage devices for network topology access

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------------------|-------------|-------|----------|---------|
| Dobberpuhl; Walter T. | Milford | MA | | |
| Bauer; Andreas L. | Acton | MA | | |
| Ericson; George M. | Shrewsbury | MA | | |
| Hopkins; Charles H. | Upton | MA | | |
| Nicoletti; Jennifer Lyn Milliken | Framingham | MA | | |
| O'Brien, III; Walter A. | Westborough | MA | | |
| Sykes; Timothy D. | Berlin | MA | | |
| Todd; Stephen James | Shrewsbury | MA | | |

US-CL-CURRENT: 709/250; 707/200, 709/213, 709/227

ABSTRACT:

A method apparatus and computer program product for providing access to host attribute information in a storage area network is disclosed. The storage area network is composed of a plurality of hosts coupled to at least one initiator. Each initiator is coupled to one or more targets and each initiator has an associated identifier. In each host, the identifier of the initiator is related to other host attribute information. The identifier may be, for example, a world wide name. The host attribute information including the identifier is sent from each of the

plurality of hosts to the one or more targets and stored in memory of an associated storage array. Either a host or requestor remote from the storage array may request the collected host attribute information from the storage array. A topology of the storage area network may then be formed from the host attribute information of each host.

4 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|-------|----------|
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☐ 45. Document ID: US 6754665 B1

L6: Entry 45 of 49

File: USPT

Jun 22, 2004

US-PAT-NO: 6754665
DOCUMENT-IDENTIFIER: US 6754665 B1

TITLE: Information processing apparatus, information processing method, and storage medium

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Futagami; Motomasa | Kanagawa | | | JP |
| Kawamoto; Youji | Tokyo | | | JP |
| Kawamura; Hirofumi | Kanagawa | | | JP |
| Nagano; Motohiko | Tokyo | | | JP |

US-CL-CURRENT: 707/102

ABSTRACT:

A technique is disclosed which makes it possible to easily control access to personal information of a user. A management server stores personal information such as a name, telephone number, address, and electronic mail address of each user. For example, if a user of a computer transmits a request command to the management server to transmit personal information of a user of a portable telephone device, the management server determines, in accordance with access restriction information, whether or not providing of the personal information of the user of the portable telephone is restricted. If the providing of the personal information requested by the user of the computer is restricted, the management server inquires of the user of the portable telephone device, who is the owner of the personal information, whether to give permission to provide the personal information. If permission is given, the management server provides the personal information to the user of the computer.

23 Claims, 28 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 25

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|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|----------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Drawings | Drawings |
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☐ 46. Document ID: US 6754221 B1

L6: Entry 46 of 49

File: USPT

Jun 22, 2004

US-PAT-NO: 6754221

DOCUMENT-IDENTIFIER: US 6754221 B1

TITLE: System and method for selecting a compression algorithm according to an available bandwidth

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|--------|-------|----------|---------|
| Whitcher; Robert H. | Austin | TX | | |
| Miller; David N. | Austin | TX | | |
| Parham; Eric Sean | Austin | TX | | |

US-CL-CURRENT: 370/401; 370/468, 370/477

ABSTRACT:

A gateway for communicating telecommunication information between a telecommunication network and customer premises equipment, includes a telecommunication interface, a management module, compression modules, and packetization modules. The telecommunication interface receives telecommunication information from the telecommunication network for communication to the customer premises equipment. The management module determines a bandwidth available to communicate the telecommunication information to the customer premises equipment and selects a compression algorithm according to the available bandwidth. The compression modules compress the telecommunication information using the selected compression algorithm, and the packetization modules generate data packets for communicating the telecommunication information.

23 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

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|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|----------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Drawings | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|--------|----------|----------|

☐ 47. Document ID: US 6754181 B1

L6: Entry 47 of 49

File: USPT

Jun 22, 2004

US-PAT-NO: 6754181

DOCUMENT-IDENTIFIER: US 6754181 B1

TITLE: System and method for a directory service supporting a hybrid communication

system architecture

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|------------------|-------|----------|---------|
| Elliott; Isaac K. | Colorado Springs | CO | | |
| Krishnawswamy; Sridhar | Cedar Rapid | IA | | |

US-CL-CURRENT: 370/252; 370/352, 370/356

ABSTRACT:

Telephone calls, data and other multimedia information is routed through a hybrid network which includes transfer of information across the internet utilizing telephony routing information and internet protocol address information. A media order entry captures complete user profile information for a user. This profile information is utilized by the system throughout the media experience for routing, billing, monitoring, reporting and other media control functions. Users can manage more aspects of a network than previously possible, and control network activities from a central site. A directory service that supports a hybrid communication system architecture is provided for routing traffic over the hybrid network and the internet.

12 Claims, 191 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 133

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
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☐ 48. Document ID: US 6748447 B1

L6: Entry 48 of 49

File: USPT

Jun 8, 2004

US-PAT-NO: 6748447

DOCUMENT-IDENTIFIER: US 6748447 B1

TITLE: Method and apparatus for scalable distribution of information in a distributed network

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|------------|-------|----------|---------|
| Basani; Vijay R. | Nashua | NH | | |
| Mangiapudi; Krishna | Nashua | NH | | |
| Murach; Lynne M. | Methuen | MA | | |
| Karge; Leroy R. | Leominster | MA | | |
| Revsin; Vitaly S. | Andover | MA | | |
| Bestavros; Azer | Wayland | MA | | |
| Crovella; Mark E. | Scituate | MA | | |

US-CL-CURRENT: 709/244; 709/219; 709/238

ABSTRACT:

The present invention provides a system and apparatus for efficient and reliable, control and distribution of data files or portions of files, applications, or other data objects in large-scale distributed networks. A unique content-management front-end provides efficient controls for triggering distribution of digitized data content to selected groups of a large number of remote computer servers. Network distribution messages are dispatched according to a sorted list of servers, based on factors such as nearness, server processor speed, reliability, and CPU Usage. For large numbers of servers, a store-and-forward approach becomes much more efficient. A first selected server receives the message from a content control manager (CCM). The first server requests instructions for the next server listed on an ordered list in the CCM and forwards a copy of that message to the next identified server. Each server reports its completion and requests further instructions from the CCM. This mechanism permits highly efficient and robust distribution of assignments and data content from the CCM to each required GL using a store-and-forward tree structure.

21 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstract | Claims | Index | Drawings |
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☐ 49. Document ID: US 6748395 B1

L6: Entry 49 of 49

File: USPT

Jun 8, 2004

US-PAT-NO: 6748395

DOCUMENT-IDENTIFIER: US 6748395 B1

TITLE: System and method for dynamic playlist of media

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|----------|-------|----------|---------|
| Picker; Saar | Bellevue | WA | | |
| Carreno; Michael J. | Redmond | WA | | |
| Flannery; Frank | Bellevue | WA | | |

US-CL-CURRENT: 707/102; 707/104.1

ABSTRACT:

A system and methods for the dynamic generation of playlists to a user are provided. In connection with a system that convergently merges perceptual and digital signal processing analysis of media entities for purposes of classifying the media entities, various means are provided to a user for automatically

generating playlists of closely related and/or similarly situated media entities for distribution to participating users. Techniques for providing a dynamic recommendation engine and techniques for rating media entities are also included. In an illustrative implementation, the playlists may be generated and stored allowing for user persistence from experience to experience.

24 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|----------|

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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
|-------|---------------------|-------|----------|-----------|---------------|

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| L5 and @pd > 20040530 | 49 |

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